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Amendments to the Claims:

This listing of claims replaces all prior versions and listings of claims in the application:

Listing of Claims:

1. (Previously presented) A primary battery, comprising:

a cathode comprising

an oxide containing an alkali metal and pentavalent bismuth, the alkali metal being lithium or potassium, and

an electrochemically active cathode material different from the oxide; an anode;

a separator between the cathode and the anode; and an alkaline electrolyte.

- 2. (Currently amended) The battery of claim 1, wherein the oxide comprises a material selected from the group consisting of MBiO₃, M₃BiO₄, M₇BiO₆, M₄Bi₂O₇, and M₅Bi₃O₁₀, where M is Li, Na, K, Rb and/or Cs; Li₅BiO₅; and Li₆KBiO₆; Li₆RbBiO₃ or K.
- 3. (Original) The battery of claim 1, wherein the oxide comprises an electrically conductive portion.
- 4. (Original) The battery of claim 3, wherein the electrically conductive portion is an electrically conductive surface coating comprising carbon or a metal oxide.
- 5. (Original) The battery of claim 4, wherein the electrically conductive surface coating comprises a material selected from the group consisting of graphite, carbon black, acetylene black, cobalt oxide, cobalt oxyhydroxide, silver oxide, silver nickel oxide, nickel oxyhydroxide, and indium oxide.
- 6. (Original) The battery of claim 1, wherein the anode comprises zinc.

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7. (Original) The battery of claim 1, wherein the electrolyte comprises lithium hydroxide, sodium hydroxide, or potassium hydroxide.

- 8. (Original) The battery of claim 1, wherein the separator is capable of preventing soluble bismuth species from diffusing from the cathode to the anode.
- 9. (Original) The battery of claim 1, wherein the separator is capable of trapping soluble bismuth species.
- 10. (Previously presented) A primary battery, comprising: a cathode comprising

an oxide containing an alkaline earth metal and pentavalent bismuth, and an electrochemically active cathode material different from the oxide; an anode;

a separator between the cathode and the anode; and an alkaline electrolyte.

- 11. (Original) The battery of claim 10, wherein the alkaline earth metal is selected from the group consisting of magnesium, calcium, strontium, and barium.
- 12. (Previously presented) The battery of claim 10, wherein the oxide comprises a material selected from the group consisting of MgBi₂O₆, SrBi₂O₆, Sr₂Bi₂O₇, LiSr₃BiO₆, NaSr₃BiO₆, (Ba,K)BiO₃, (Sr,K)BiO₃, Li₂Ba₅Bi₂O₁₁, and Ba₂Bi₂O₆.
- 13. (Original) The battery of claim 10, wherein the oxide comprises an electrically conductive portion.
- 14. (Original) The battery of claim 13, wherein the electrically conductive portion is an electrically conductive surface coating comprising carbon or a metal oxide.

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15. (Original) The battery of claim 14, wherein the electrically conductive surface coating comprises a material selected from the group consisting of graphite, carbon black, acetylene black, cobalt oxide, cobalt oxyhydroxide, silver oxide, silver nickel oxide, nickel oxyhydroxide, and indium oxide.

- 16. (Original) The battery of claim 10, wherein the oxide comprises cobalt oxyhydroxide and MgBi₂O₆.
- 17. (Original) The battery of claim 10, wherein the anode comprises zinc.
- 18. (Original) The battery of claim 10, wherein the electrolyte comprises lithium hydroxide, sodium hydroxide, or potassium hydroxide.
- 19. (Original) The battery of claim 10, wherein the oxide further comprises an alkali metal.
- 20. (Original) The battery of claim 10, wherein the separator is capable of preventing soluble bismuth species from diffusing from the cathode to the anode.
- 21. (Original) The battery of claim 10, wherein the separator is capable of trapping soluble bismuth species.
- 22. (Currently amended) A primary battery, comprising: a cathode comprising

an oxide containing a metal and pentavalent bismuth, the metal being a main group metal, a lanthanide or a transition metal, other than silver, and

an electrochemically active cathode material different from the oxide; an anode;

a separator between the cathode and the anode; and an alkaline electrolyte.

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23. (Currently Amended) The battery of claim 22, wherein the <u>transition</u> metal is selected from the group consisting of scandium, vanadium, manganese, iron, cobalt, nickel, copper, silver, zinc, yttrium, zirconium, niobium, molybdenum, ruthenium, palladium, cadmium, tantalum, and tungsten.

- 24. (Currently Amended) The battery of claim 22, wherein the <u>lanthanide</u> metal is selected from the group consisting of lanthanum, cerium, praseodymium, neodymium, samarium, europium, gadolinium, terbium, dysprosium, holmium, erbium, thulium, and ytterbium.
- 25. (Original) The battery of claim 22, wherein the metal is selected from the group consisting of indium, tin, antimony, and lead.
- 26. (Original) The battery of claim 22, wherein the oxide further comprises an alkali metal or an alkaline earth metal.
- 27. (Currently Amended) The battery of claim 22, wherein the oxide comprises a material selected from the group consisting of ZnBi₂O₆, Cu₂Bi₂O₇, CdBi₂O₆, AgBiO₃, Ag₂₅Bi₃O₁₈, Ba₂YBiO₆, Ba₂LaBiO₆, Sr₂NdBiO₆, Ba₂InBiO₆, Ba(Bi,Pb)O₃, Sr₁₈Ru_{1.9}Bi_{4.1}O₃₃, Li₈PdBi₂O₁₀, and Sr₂ScBiO₆.
- 28. (Original) The battery of claim 22, wherein the oxide comprises an electrically conductive portion.
- 29. (Original) The battery of claim 28, wherein the electrically conductive portion is an electrically conductive surface coating comprising carbon or a metal oxide.
- 30. (Original) The battery of claim 29, wherein the electrically conductive surface coating comprises a material selected from the group consisting of graphite, carbon black,

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acetylene black, cobalt oxide, cobalt oxyhydroxide, silver oxide, silver nickel oxide, nickel oxyhydroxide, and indium oxide.

- 31. (Original) The battery of claim 22, wherein the oxide comprises cobalt oxyhydroxide and ZnBi₂O₆.
- 32. (Original) The battery of claim 22, wherein the anode comprises zinc.
- 33. (Original) The battery of claim 22, wherein the electrolyte comprises lithium hydroxide, sodium hydroxide, or potassium hydroxide.
- 34. (Original) The battery of claim 22, wherein the separator is capable of preventing soluble bismuth species from diffusing from the cathode to the anode.
- 35. (Original) The battery of claim 22, wherein the separator is capable of trapping soluble bismuth species.
- 36-41. (Cancelled).
- 42. (Currently Amended) The battery of claim 1, wherein the electrochemically active cathode material is selected from the group consisting of manganese dioxide, NiOOH nickel oxyhydroxide, AgO, AgNiO₂, and AgCoO₂.
- 43. (Previously presented) The battery of claim 1, wherein the electrochemically active cathode material comprises manganese dioxide.
- 44. (Currently Amended) The battery of claim 1, wherein the electrochemically active cathode material comprises NiOOH nickel oxyhydroxide.

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45. (Currently Amended) The battery of claim 10, wherein the electrochemically active cathode material is selected from the group consisting of manganese dioxide, NiOOH nickel oxyhydroxide, AgO, AgNiO₂, and AgCoO₂.

- 46. (Previously presented) The battery of claim 10, wherein the electrochemically active cathode material comprises manganese dioxide.
- 47. (Currently Amended) The battery of claim 10, wherein the electrochemically active cathode material comprises NiOOH <u>nickel oxyhydroxide</u>.
- 48. (Currently Amended) The battery of claim 10, wherein the oxide comprises MgBi₂O₆, and the electrochemically active cathode material comprises NiOOH nickel oxyhydroxide.
- 49. (Currently Amended) The battery of claim 22, wherein the electrochemically active cathode material is selected from the group consisting of manganese dioxide, NiOOH nickel oxyhydroxide, AgO, AgNiO₂, and AgCoO₂.
- 50. (Previously presented) The battery of claim 22, wherein the electrochemically active cathode material comprises manganese dioxide.
- 51. (Currently Amended) The battery of claim 22, wherein the electrochemically active cathode material comprises NiOOH nickel oxyhydroxide.
- 52. (Cancelled).
- 53. (New) A primary battery, comprising:

a cathode comprising AgBiO₃ and at least 50% by weight of a second cathode active material selected from the group consisting of manganese dioxide and nickel oxyhydroxide;

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an anode;

a separator between the cathode and the anode; and an alkaline electrolyte.

- 54. (New) The battery of claim 53, wherein the AgBiO₃ comprises an electrically conductive portion.
- 55. (New) The battery of claim 54, wherein the electrically conductive portion is an electrically conductive surface coating comprising carbon or a metal oxide.
- 56. (New) The battery of claim 55, wherein the electrically conductive surface coating comprises a material selected from the group consisting of graphite, carbon black, acetylene black, cobalt oxide, cobalt oxyhydroxide, silver oxide, silver nickel oxide, nickel oxyhydroxide, and indium oxide.
- 57. (New) The battery of claim 53, wherein the anode comprises zinc.
- 58. (New) A primary battery, comprising:

a cathode comprising

at least 30% of AgBiO₃ by weight, and

an electrochemically active cathode material different from AgBiO₃;

an anode;

- a separator between the cathode and the anode; and an alkaline electrolyte.
- 59. (New) The battery of claim 58, wherein the AgBiO₃ comprises an electrically conductive portion.
- 60. (New) The battery of claim 59, wherein the electrically conductive portion is an electrically conductive surface coating comprising carbon or a metal oxide.

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61. (New) The battery of claim 60, wherein the electrically conductive surface coating comprises a material selected from the group consisting of graphite, carbon black, acetylene black, cobalt oxide, cobalt oxyhydroxide, silver oxide, silver nickel oxide, nickel oxyhydroxide, and indium oxide.

- 62. (New) The battery of claim 22, wherein the anode comprises zinc.
- 63. (New) The battery of claim 58, wherein the cathode comprises at least 40% of AgBiO₃ by weight.